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INC.

Geoenvironmental Engineering and Technologies

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September 8, 1989

Mr. Neil Thompson
Environmental Protection Agency
Park Place Building
1200 - 6th Avenue
Seattle, WA 98101

**PROGRESS REPORT
COLBERT LANDFILL RD/RA
JULY THROUGH AUGUST 1989**

Presented herein is the July 1 through August 31, 1989, progress report for the Colbert Landfill RD/RA Superfund Project (Project). This progress report has been prepared by Landau Associates, Inc. (Landau), Spokane County's (County) engineering consultant. It addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- 1) A description of Remedial Action activities commenced or completed during the reporting period,
- 2) Remedial Action activities projected to be commenced or completed during the next reporting period (through September 1989), and
- 3) Any problems that have been encountered or are anticipated in commencing or completing the activities.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Several activities were commenced and/or completed during the reporting period. Most of these activities involve preparation and revision of Phase I work plans, site mobilization, and initiation of Phase I field activities. Specific activities commenced and/or completed during this period include:

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- o The Health and Safety Plan and Phase I Ground Water Monitoring Well Construction Plan (Monitoring Well Plan) were revised based on EPA/Ecology comments, and final drafts submitted to the Regulatory Agencies. Additional EPA comments on the Monitoring Well Plan (received September 5) will require a written response, but no work plan revisions.
- o Final EPA/Ecology comments for the Quality Assurance Project Plan (QAPjP) were received September 5, and are being addressed.
- o The landfill boundary survey was completed.
- o Construction of the Project Support Zone was completed.
- o Property access was obtained for the four West Area monitoring well locations, and the two East Area monitoring well locations situated on County property. Property access negotiations are ongoing for other identified Phase I facility locations.
- o Staco Well Services, Inc. of Mt. Angel, Oregon was retained as the Phase I drilling contractor.
- o Proposals were solicited and received for Phase I analytical laboratory services; laboratory selection should be completed by mid-September.
- o Initial mobilization to the site for start-up of Phase I field activities was completed; mobilization will continue as project activities progress.
- o The Upper Aquifer Well Verification Study was commenced; property access to many wells is still tentative; definite access refusals are noted below:
 - 1) Well depth determination: the (b) (6) wells were eliminated from this task. (b) (6) and (b) (6) denied access to their wells; the (b) (6) wells are inaccessible; and the (b) (6) well was recently sounded by the owner.

- 2) Well elevation survey: no access refusals to date.
- 3) Water level elevation survey: (b) (6) was eliminated from this task, as described in (1) above.
- o Monitoring well construction was initiated in the East Area near the intersection of Yale and Big Meadows Roads, as shown on the attached Site Plan. Drilling began on August 30 using cable tool drilling equipment, with 35 feet of boring advancement completed through August 31.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in the Schedule for Submittal of Deliverables, the next reporting period will extent through September 1989. Anticipated activities for September include response to EPA/Ecology work plan comments, completion of the Upper Aquifer Well Verification Study, and continuation of well construction activities. Specific activities anticipated to be commenced/completed during the next reporting period include:

- o Respond to EPA/Ecology QAPjP comments (by mid-September).
- o Prepare and submit the final QAPjP (by late September). Completion contingent on timely EPA/Ecology review and approval of County response to EPA/Ecology comments.
- o Prepare and submit written response to EPA comments on the Monitoring Well Plan (by late September).
- o Complete Upper Aquifer Well Verification Study (by late September).
- o Complete the first monitoring well installation at Yale and Big Meadows Roads (by mid-September). It is anticipated that subsequent wells at this location will be constructed in late 1989 or early 1990 using air rotary drilling equipment.
- o Initiate drilling (with cable tool) at the West Area monitoring well location near the Little Spokane River, shown on the attached Site Plan (by early September).

- o Initiate drilling (with air rotary) at one of the West Area monitoring locations near Highway 2; specific location has not yet been selected (by mid- to late September).
- o Initiate drilling (with cable tool) at the East Area monitoring well location near the north property boundary of the Landfill; location shown on attached Site Plan (by late September). Initiation of drilling at this location is contingent on completion of the monitoring well located near the southeast corner of the Landfill.

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

No major problems were encountered in commencing or completing remedial activities during the July - August 1989 reporting period, although a few minor problems were experienced. One potential problem has been identified which may impact the schedule for commencing Phase I ground water sampling and analysis.

Encountered Problems Include:

- o Official notice to proceed with drilling activities was not received until August 17, 1989, rather than August 1 as anticipated. Although this delay in notification did not result in postponement of driller mobilization, it did require that drilling be initiated with cable tool instead of air rotary equipment; this equipment change will result in slower than anticipated well construction progress during the early stages of Phase I.
- o Refuse, intermixed with soil cover, was found at a depth of 12 to 18 inches below ground surface in the existing landfill soil cover during installation of onsite utilities for the Project Support Zone. The refuse was discontinuous and of limited areal extent, and consisted of common household waste (paper, bottles, garden hose, wire, etc.). The following steps were taken:

- 1) Utility contractors were demobilized;
 - 2) A work zone was delineated using yellow caution tape;
 - 3) Personnel with the appropriate OSHA health and safety training were mobilized and modified level "D" personal protection (as described in the Project Health and Safety Plan) was implemented;
 - 4) Utility excavation was continued (with modified Level "D" personal protection), and trenches were monitored for volatile organic compounds using a photoionization meter. No volatiles were detected;
 - 5) Refuse was separated from the soil cover and containerized for future disposal at a solid waste landfill;
 - 6) Utility trenches were monitored for volatile organic compounds a second time to confirm safe working conditions; and
 - 7) The work zone was deactivated and the utility contractors were allowed to continue work.
- o Property access could not be obtained for all wells designated for evaluation during the Upper Aquifer Well Verification Study, as previously noted. However, access has not been denied to any wells considered critical for successful completion of this task.

Anticipated Problems Include:

- o Delays in finalization of the QAPjP may occur if timely review and approval of County QAPjP modifications and written response to EPA/Ecology comments are not forthcoming. Final EPA/Ecology approval of the QAPjP is needed by October 15, 1989, to prevent potential delays in ground water sampling and analysis.

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This progress report describes the major Remedial Action activities commenced or completed during the reporting period, anticipated (to be commenced or completed) during the next reporting period, and any problems encountered or anticipated. As such, there are secondary and peripheral activities associated with these major tasks that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for secondary or peripheral activities, please contact me or Dean Fowler (Spokane County).

Very truly yours,

LANDAU ASSOCIATES, INC.

By:


Lawrence D. Beard, P.E.

LDB/tmc

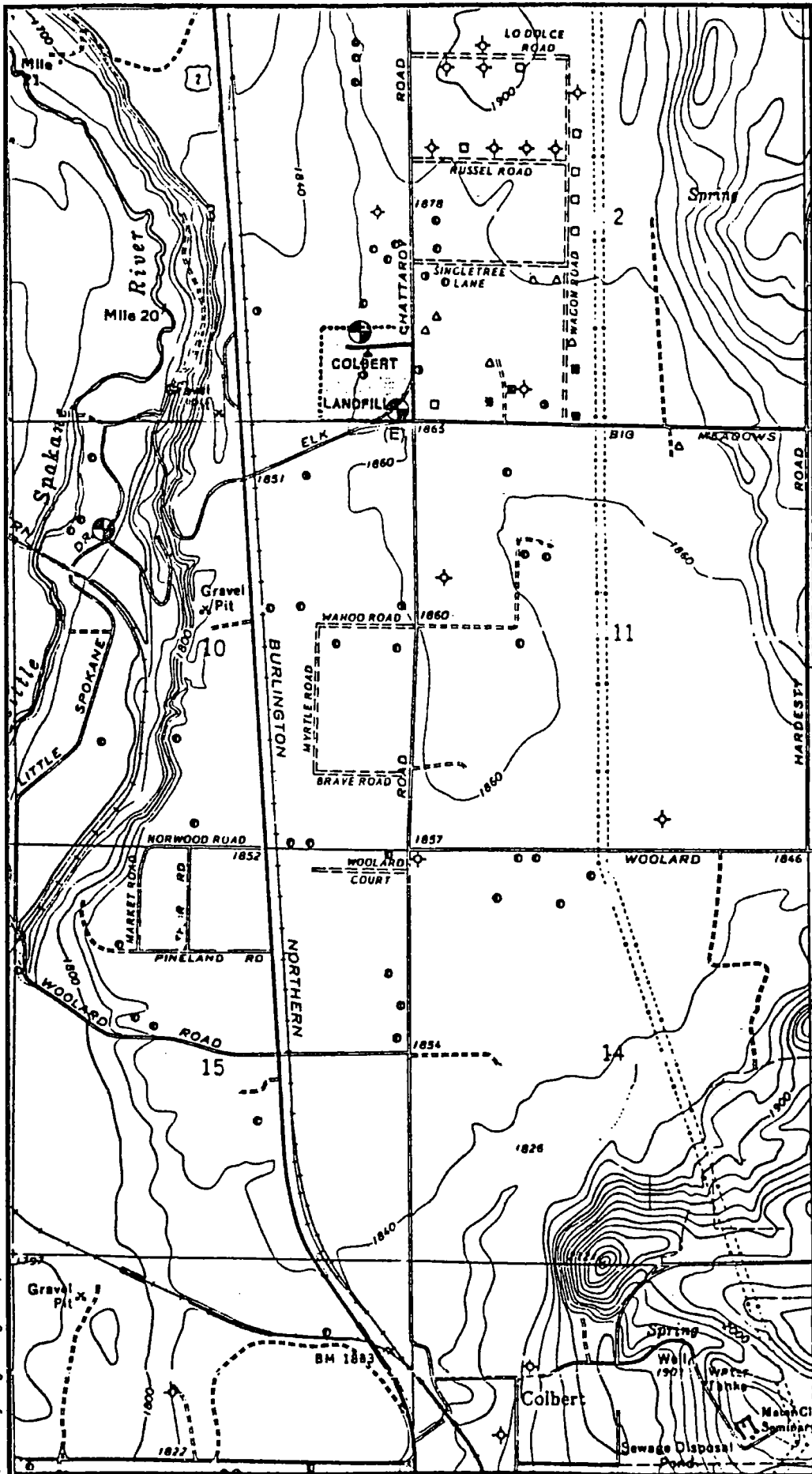
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cc: Mr. Mike Blum


Washington State Department of Ecology

Mr. Dean Fowler

Spokane County



KEY

-  Approximate location of Phase I Monitoring Well or Monitoring Well Group

